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CH2MHILL

October 7, 2009
277085.31.LC/MIPC.C987

Ms. Carolyn d'Almeida
United States Environmental Protection Agency
75 Hawthorne Street, SFD-7-2
San Francisco, CA 94105

Subject: Polychlorinated Biphenyl Site Building 688 UL#02 in Investigation Area C2, Where No Further Action is Required under the United States Environmental Protection Agency Consent Agreement and Final Order

Dear Ms. d'Almeida:

CH2M HILL prepared this letter to comply with the Consent Agreement and Final Order (CA/FO) between United States Environmental Protection Agency (USEPA) and the United States Department of the Navy (Navy), with the City of Vallejo and Lennar Mare Island, LLC (LMI), as intervenors (USEPA et al. 2001). The CA/FO sets forth the polychlorinated biphenyl (PCB)-related requirements that must be met to satisfy the Toxic Substances Control Act (TSCA) for LMI's Eastern Early Transfer Parcel.

Pursuant to Paragraph 6(a) of the CA/FO, this letter demonstrates that a no further action (NFA) determination under TSCA is appropriate, with respect to PCB contamination, as part of the overall regulatory closure process for PCB Site Building 688 UL#02, on LMI's Eastern Early Transfer Parcel. An NFA determination is appropriate because the Navy performed cleanup actions prior to August 28, 1998, and the remaining PCB concentrations - a maximum total PCB concentration less than 10 milligrams per kilogram (mg/kg) and an average PCB concentration less than 5 mg/kg – are less than the alternative substantive cleanup requirements (SCRs). In accordance with Paragraphs 7 and 8 of the CA/FO, NFA is appropriate for PCB Site Building 688 UL#02, with a land use covenant limiting the property to industrial use.

Site Identification

Using visual site surveys, reviews of historical records, building closure reports, and databases of electrical equipment, the Navy identified sites where PCB-containing equipment was located, PCB spills were documented, or contamination was suspected because of building history or visible stains (Tetra Tech Environmental Management, Inc. 1999). Navy personnel from Supervisor of Shipbuilding, Conversion and Repair, Portsmouth, Virginia, Environmental Detachment (SSPORTS) conducted interim PCB assessments and performed cleanup actions (e.g., washing, scabbling) in accordance with technical work documents (TWDs), where necessary.

Building 688, a pump test shop built in 1941, is located east of Railroad Avenue and south of Oklahoma Street (formerly 13th Street) in Investigation Area C2. Building 688 is currently occupied and used for material storage. According to the *Preliminary Land Use Plan* (SWA Group 2000), Building 688 is in an area designated for future industrial use. Figure 1 shows the location of Building 688.

There are three previously unidentified PCB sites associated with Building 688 that were not listed in the Consent Agreement signed April 16, 2001, by LMI, the City of Vallejo, and the State of California Environmental Protection Agency, Department of Toxic Substances Control (LMI et al. 2001): UL#01, UL#02, and UL#03. PCB Site Building 688 UL#02 is defined as the building floor stains in the northern, southeastern, and central interior of Building 688. PCB Site Building 688 UL#01 consists of concrete, manholes, soil, and asphalt associated with a transformer pad adjacent to the western exterior wall of Building 688 and is being addressed for closure in a separate submittal. PCB Site Building 688 UL#03 consists of loose sediment and debris inside covered and steel-lined pits beneath the floor of Building 688 and is being addressed for closure in a separate submittal (Figure 1).

Site Investigations and Cleanup Actions

Table 1 summarizes the previous sampling at Building 688 UL#02. This table includes the sample numbers, matrices, dates, and total PCB concentrations (or laboratory detection levels if PCBs were not detected).

The following site investigation summary is based on CH2M HILL's review and interpretation of historical information contained in TWDs 95-0328 and 95-0340, which were discovered during transition of Navy documents to LMI prior to commencement of work under the Consent Agreement. From this historical documentation, it appears that in April 1995, SSPORTS performed PCB sampling activities inside Building 688. A hand-annotated, undated figure attached to the TWDs (Attachment 1) appears to show approximately 40 proposed sample locations on the first floor of Building 688; however, evidence exists for only four samples being collected based on the laboratory data sheets and proposed actions at two targeted locations presented in the TWDs. The laboratory data sheets for the four samples collected by SSPORTS (5103-0644, -0645, -0667, and -0668) are summarized in Table 1 and are provided with the TWDs for reference in Attachment 1. The approximate location of two of the four samples collected by SSPORTS, whose PCB concentrations were 4.09 micrograms per sample area (µg/sample) (5103-0667) and 2.45 µg/sample (5103-0645), were not specifically identified in the TWDs, but their approximate locations inside Building 688 have been plotted on Figure 2 using the locations on the hand-annotated figure in TWD 95-0328 (SSPORTS 1995a-b). The locations of the remaining two wipe samples were determined from the TWDs. Wipe sample 5103-0668 (15.1 µg/sample) was collected from a stained area in the southwestern part of Building 688, and wipe sample 5103-0644 (11.2 µg/sample) was collected from the stain in the northern part of Building 688 (SSPORTS 1995a b) (Figure 2).

As part of TWD 95-0328, SSPORTS decontaminated the stain in the northern part of Building 688 where previous wipe sample location 5103-0644 (11.2 µg/sample) was collected (SSPORTS 1995b) (Figure 2). The floor stain was double-washed and rinsed with

industrial-strength detergent or non-ionic surfactant solution (Attachment 1). Additionally, as part of TWD 95-0340, SSPORTS decontaminated a stain in the southeast end of Building 688 where previous wipe sample location 5103-0668 (15.1 µg/sample) was collected (SSPORTS 1995a) (Figure 2). The floor stain was double-washed and rinsed with industrial-strength detergent or non-ionic surfactant solution (Attachment 1).

According to historical laboratory data sheets, in 1996, SSPORTS collected one concrete chip sample (6120-0018) from a stain in the northern part of the building (1.6 mg/kg), one oil sample (6120-0019) from a starting compensator (3.9 parts per million) that was located in the southern portion of the building at that time, and one additional concrete sample (6120-0017) from an unknown location (1.5 mg/kg). According to visual observations from inside the building, the starting compensator from Building 688 was removed prior to CH2M HILL's involvement at the site.

On June 28, 2002, CH2M HILL collected one wipe verification sample (B688UL2WP0273) from the northern stain and one concrete chip verification sample (B688UL2CH0274) from the southeastern stain (Figure 2). PCBs were detected in wipe sample B688UL2WP0273 at a total concentration of 1.32 micrograms per 100 square centimeters (µg/100 cm^2) and in concrete chip sample B688UL2CH0274 at a total concentration of 0.42 mg/kg (Figure 2).

Polychlorinated Biphenyl Site Closure Process

According to the *Final Polychlorinated Biphenyl Work Plan* (CH2M HILL 2003), and under TSCA, NFA is appropriate under TSCA at PCB sites where the maximum remaining total PCB concentrations comply with the alternative SCRs provided in Paragraph 8 of the CA/FO. Five concrete wipe samples were collected at PCB Site Building 688 UL#02. Two of the concrete wipe sample locations were remediated, as described in the previous section. The remaining total PCB concentrations in wipe samples were below the 10-µg/100 cm^2 TSCA high-occupancy cleanup goal for PCBs in nonporous materials.

Three solid samples were also collected from the concrete floor of PCB Site Building 688 UL#02 (6120-0017, 6120-0018, and B688UL2CH0274). The maximum remaining PCB concentration in a concrete chip sample was 1.6 mg/kg (Aroclor-1260 in sample 6120-0018). The remaining PCB concentrations (reported as Aroclor-1260 in SSPORTS samples 6120-0017 and 6120-0018; reported as total PCBs in sample B688UL2CH0274) in solid samples meet the alternative SCRs in Paragraph 8(b)(2) of the CA/FO, which states: "For concrete and wood floors with an average PCB concentration, based on chip samples taken from the surface of dry concrete or wood which was contaminated or presumed contaminated by PCBs, of 5 ppm [parts per million] or less, with a maximum concentration of 10 ppm in any sample, the PCBs in the concrete are disposed of and require no further remediation provided that there shall be a deed restriction limiting the property to industrial use only" (USEPA et al. 2001).

Conclusions

The maximum remaining PCB concentration in concrete at PCB Site Building 688 UL#02 is 1.6 mg/kg (sample 6120-0018) and the arithmetic mean of the solid samples is 1.2 mg/kg.

Because only three data points exist for this site (all other samples have been remediated), the 95 percent upper confidence limit on the mean could not be calculated using the ProUCL model. In accordance with Paragraph 8(b)(2) of the CA/FO (an average of 5 mg/kg or less in all samples with a maximum of 10 mg/kg in any remaining sample), no further PCB cleanup is necessary at PCB Site Building 688 UL#02. Consequently, CH2M HILL requests that USEPA issue an NFA determination for PCB Site Building 688 UL#02, with implementation of a deed restriction limiting the future use to industrial purposes, in accordance Title 40, Code of Federal Regulations, Paragraph 761.61(c).

Please respond to this letter with confirmation that, in accordance with the approved *Final Polychlorinated Biphenyl Work Plan* (CH2M HILL 2003) and the CA/FO (USEPA et al. 2001), an NFA determination under TSCA is appropriate for PCB Site Building 688 UL#02. Please submit your approval of NFA for this site to Stephen Farley at the above address or via email at Stephen.Farley@ch2m.com. If you have questions regarding the PCB site addressed in this letter, please contact Jennifer Lindquist at 530/229-3224 or Stephen Farley at 707/562-1015, extension 103.

Sincerely,

CH2M HILL

Jennifer L. Lindquist
Project Manager

Stephen M. Farley, P.G.
Senior Technical Consultant

BAO\092530001 (B688UL#02_USEPA.doc)

Enclosures: Table 1, Figures 1 and 2

References

CH2M HILL. 2003. *Final Polychlorinated Biphenyl Work Plan*. March 7.

Lennar Mare Island, the City of Vallejo, and the State of California, Environmental Protection Agency Department of Toxic Substances Control. 2001. *Consent Agreement between Lennar Mare Island, the City of Vallejo, and the State of California, California Environmental Protection Agency Department of Toxic Substances Control.* April 16.

Supervisor of Shipbuilding, Conversion, and Repair, Portsmouth, Virginia, Environmental Detachment (SSPORTS). 1995a. *PCB Decontamination Technical Work Document (TWD) No. 95-0340.* June.

_____. 1995b. *PCB Decontamination Technical Work Document (TWD) No. 95-0328.* June.

SWA Group. 2000. *Preliminary Land Use Plan.* May 23.

Tetra Tech Environmental Management, Inc. 1999. Final Basewide Polychlorinated Biphenyl Confirmation Sampling Summary Report. Revised. January.

United States Environmental Protection Agency, United States Department of the Navy, the City of Vallejo, and Lennar Mare Island. 2001. *Complaint/Consent Agreement and Final Order between Lennar Mare Island, the City of Vallejo, the U.S. Department of the Navy, and the U.S. Environmental Protection Agency Region IX.* EPA Docket No. TSCA-9-2002-0002. December 20.

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TABLE 1
Sample Results for PCB Site Building 688 UL#02
PCB Sites, Lennar Mare Island, Vallejo, California

Sample Number or Location Identification	Sample Matrix	Sample Date	Total PCB Concentration	Comments
5103-0644	Concrete wipe	04/14/1995	11.2 µg/sample	Stain in northern portion of building; removed under TWD 95-0328; Aroclor-1254
5103-0645	Concrete wipe	04/14/1995	2.45 µg/sample	Collected from southern portion of building; Aroclor-1254
5103-0667	Concrete or Machine wipe	04/17/1995	4.09 µg/sample	Collected from southern portion of building; Aroclor-1254
5103-0668	Concrete wipe	04/17/1995	15.1 µg/sample	Stain in southeastern portion of building; removed under TWD 95-0340; Aroclor-1254
6120-0017	Concrete chip	04/1996	1.5 mg/kg	Unknown location inside Building 688; Aroclor-1260
6120-0018	Concrete chip	04/30/1996	1.6 mg/kg	Stain in northern portion of building; Aroclor-1260
6120-0019	Oil	04/1996	3.9 ppm	Oil sample from starting compensator (removed); Aroclor-1260
B688UL2WP0273	Concrete wipe	06/28/2002	1.32 µg/100 cm^2	Verification sample associated with cleanup of 5103-0644
B688UL2CH0274	Concrete chip	06/28/2002	0.42 mg/kg	Verification sample associated with cleanup of 5103-0668

Notes:

µg/100 cm^2	micrograms per 100 square centimeters
µg/sample	micrograms per sample area
mg/kg	milligrams per kilogram
ppm	parts per million
PCB	polychlorinated biphenyl
TWD	Technical Work Document

FIGURE 1
GENERAL LOCATION OF BUILDING 688
INVESTIGATION AREA C2
LENNAR MARE ISLAND, VALLEJO, CALIFORNIA

\\BALDUR\PROJ\MARE_ISLAND_264204\MXDS\PCB\B688\RFC\FIG1_B688_UL02_UL03_LOC.MXD ECLARK1 4/2/2009 17:25:11

CH2MHILL

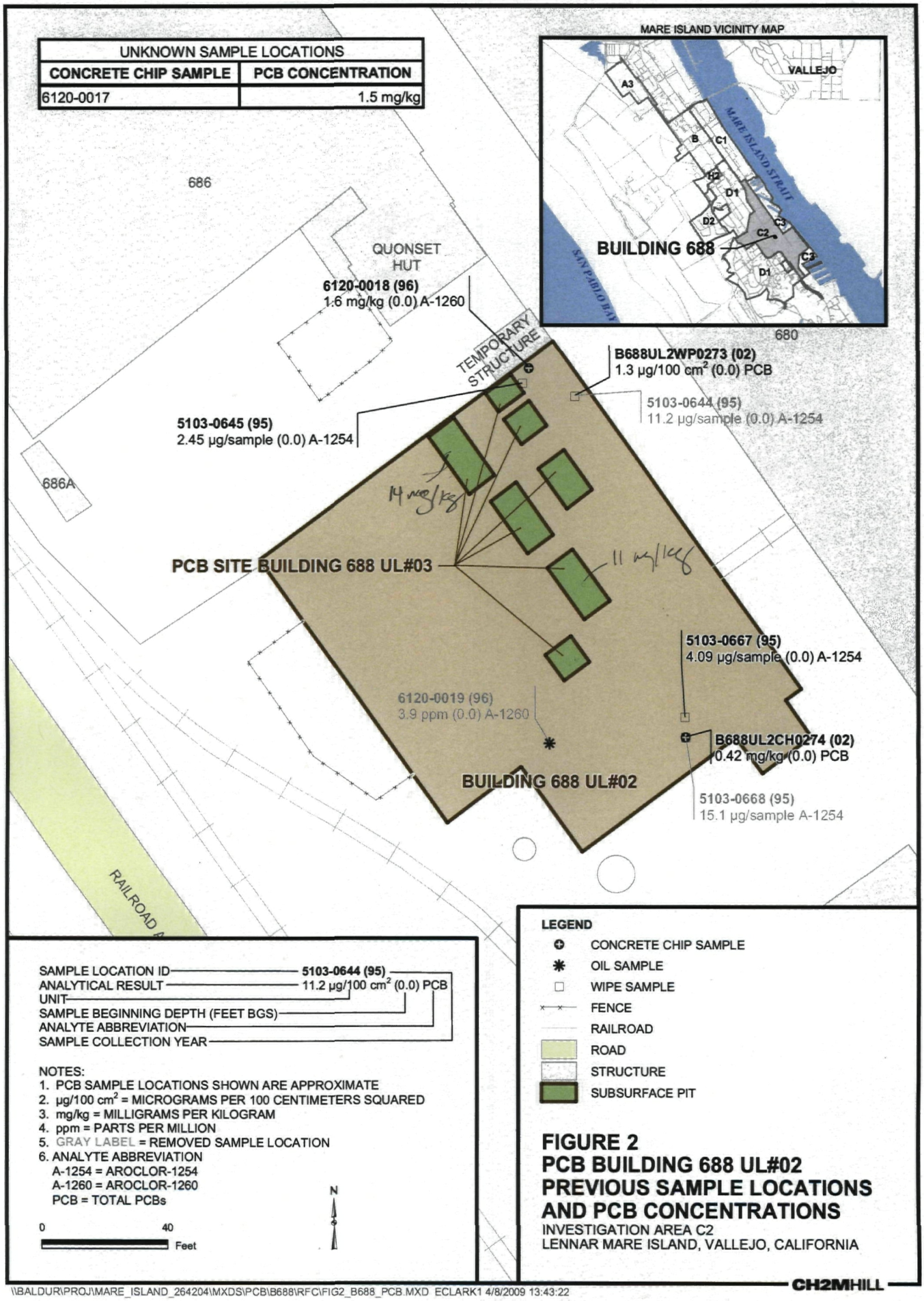


FIGURE 2
PCB BUILDING 688 UL#02 PREVIOUS SAMPLE LOCATIONS AND PCB CONCENTRATIONS

INVESTIGATION AREA C2
LENNAR MARE ISLAND, VALLEJO, CALIFORNIA

CH2MHILL

\\BALDUR\PROJ\MARE_ISLAND_264204\MXDS\PCB\B688\RFC\FIG2_B688_PCB.MXD ECLARK1 4/8/2009 13:43:22

Attachment 1

UIO#02255

MARE ISLAND NAVAL SHIPYARD
YARD ROUTE SLIP

CODE	STOP	NAME	EXTENSION	DATE
106.4PCB	B521	DAVE KUSIK	6-6078	14 JUN 95

☐ ACTION ☐ COORDINATE ☐ PREPARE DRAFT ☐ RETENTION
☐ AS DISCUSSED ☐ FILE ☐ PREPARE FOR SIGNATURE ☐ RETURN
☑ COMMENT / CONCUR ☐ INFORMATION ☐ REPORT BACK ☐

TO CODE	INITIALED BY	INITIALED DATE	SUBJECT / COMMENTS
			SUBJECT TWD # 328 BLDG # 688
			COMMENTS
106.4	[signature]	6/15	REVIEW For
106.4FP	[signature]	9/15	APPROVAL
~~106.1~~			~~CONCURRENCE (WHEN REQUIRED)~~
~~106.2~~			~~CONCURRENCE (WHEN REQUIRED)~~
106.32	[signature]	6/15/95	CONCURRENCE
			ITEM # N/A ON 106.04 SURVEY REPORT
			COPIES TO 300CC/EC, STATUS
106.4	[signature]	6-16-95	LAST: LINDA REMMINGTON (COPIES TO 300EC/CC & ~~106.1/106.2~~)
			LARRY RAMEY
			CRAIG VARNAU

MINS 5216/24 (REV 1-85)

PCB DECONTAMINATION TECHNICAL WORK DOCUMENT (TWD)

PCB CONTAMINATED MACHINE NO FLOOR STAIN-88

TWD NO. 95-0328

BLDG NO. 688

MARE ISLAND NAVAL SHIPYARD
VALLEJO, CALIFORNIA

Prepared by:
BRAC Environmental Technical Division
Code 106.4
Vallejo, Calif. 94592

Distribution:
300EC
300CC
106.4
106.32

PCB DECONTAMINATION
TECHNICAL WORK DOCUMENT
INITIAL ISSUE

		Date
Prepared by:	Code 106.4	6/15/95
Reviewed by:	Code 106.4	6-15-95
Approved by:	Code 106.4 (Project Manager)	6/15/95
Concurrence:	Code 106.32	6-15-95

Rev.	Description	Approval	Date

1.0 Purpose

1.1 The purpose of this TWD is to decontaminate stained concrete floor area of building 688, (1st floor). The stain is located in the northeast side of building 688 (see sketch on enclosure 3). The stain contains 11.2 ug/100 sq. cm. for sample 5103-0644. The result exceeds the acceptable PCB level of 10 ug/100 sq. cm. (see enclosure 1) as described in reference 3.2. The sample number should be marked near the sample location. Code 106.4 shall be contacted at 6-7657 if sample number is missing from the area.

2.0 Description

2.1 The floor oil stain shall be decontaminated using the procedures required by this TWD.

3.0 References

3.1 NAVSHIPYDMAREINST 5100.36 -- Shipyard Occupational Safety and Health Workplace Manual, Mare Island Naval Shipyard, Occupational Safety, Health, and Environmental Office -- Code 106

3.2 Workplan PCB Decontamination for Spill Sites, Mare Island Naval Shipyard, Code 106.4.

3.3 Mare Island Naval Shipyard Environmental Protection Manual of 1 February 1994

4.0 Health & Safety Section / General Notes

4.1 All work performed shall be in strict adherence to the shipyard Occupational Safety and Health (OSH) Manual (reference 3.1) the General Health & Safety Plan, Section 4 of reference 3.2., and the Health and Safety Section of this TWD.

4.2 At least two people shall be present at all times while chemical or physical hazards exist and access is being controlled to the PCB Work Area.

4.3 Personal protective equipment (PPE) shall be as follows:
Saranex coated tyvek coveralls
Viton gloves with latex gloves worn over them
Steel toed boots (if worn without coverings shall be washed with detergent and rinsed).
Nitrile or neoprene foot coverings may be worn over steel toed boots.
Face shield (8" minimum) with vented goggles (while cleaning)

4.4 Workers performing decontamination shall have received the following training as a minimum:
PCB Handling Controls (course YJ-B010)
Hazcomm (course YJ-A552)

4.5 The main hazard at the site is PCBs on the floor. Slip and trip hazards are existent due to raised floor from water damage. Ventilation is adequate as the building is vacant and is large, and this will provide fresh air.

4.6 Temperatures above 100 degrees are not expected; nor is any hot work authorized, so PCBs will not be airborne.

4.7 Site access shall be controlled using the following areas:
• Hot Zone - The area of the spill site. Personnel entry to the hot zone shall be minimized. The area to be decontaminated and disposed of is the hot zone plus the buffer zone.
•Buffer Zone - A one (1) foot wide area adjacent to and surrounding the hot zone.
•Warm Zone - An area approximately three (3) feet by six (6) feet near the hot zone established by this TWD. The warm zone shall be used for exiting PPE decontamination procedures. The warm zone shall be established prior to beginning decontamination.
These areas shall be posted to exclude unauthorized personnel and the building shall be locked when not in use.

4.8 An emergency eyewash station with a 15 minute minimum capacity shall be accessible in 10 seconds or less from the work area.

4.9 Phone numbers are as follows:

Hospital:	9-911 or 646-4444	Ambulance:	9-911 or 646-4444
Spill team:	646-0182 or 0183	Fire:	9-911 or 646-3333
Police:	9-911 or 646-2222	Project Mgr.:	646-5945
Emergency:	9-911		

4.10 Contact Code 106.4, L. Ramey at 6-7657 immediately after the floor decontamination. Resampling after decontamination is required by Code 106.4.

5.0 Decontamination Procedures

5.1 Support Area (Personal Decontamination)
Personal decontamination is required for PPE and cleaning equipment that comes in contact with PCB contaminated surfaces or PCB contaminated cleaning fluid and materials. Personal decontamination shall be performed in the warm zone, as defined in Section 4.7, and shall be performed in accordance with Section 4.9 of reference 3.2. The floor of the warm zone and routes between the warm zone and the hot zones shall be covered with plastic drop cloths to avoid spread of contamination.

5.2 HSP Forms

Code 106.4 will provide minimum specific health and safety information in Section 4.0 of each TWD. This information in most cases will be sufficient. Personal preferences regarding PPE and communication methods, and changes at the decontamination site from the time the TWD was written to when the decontamination is accomplished/completed may cause a change to the health and safety information provided. Therefore, the On-Site Health and Safety Coordinator, just prior to and during decontamination, shall review HSP forms 4.6, 4.15 and 4.16 of reference 3.2 and complete forms if: 1) one of the conditions mentioned in the previous sentence exist or 2) the TWD does not cover an item, e.g. communications, on HSP form 4.16. Any down grading of health and safety information (PPE and air monitoring) will only occur upon written approval of Code 106.4. HSP Acceptance Form 4.17 (enclosure 2), must be completed and signed by each person performing decontamination.

5.3 Sampling Evolution (Place an x or number on applicable line)

Initial Sampling ___X___ Resampling _____ (1,2,3,etc.)

5.4 Specific Instructions:

Perform decontamination of floor stain in accordance with the applicable general instructions set forth in reference 3.2, section 2, paragraph 2.5.1, and the specific requirements as follows: Before starting decon move work bench out of the way. Double wash /rinse entire stain on concrete area with industrial strength detergent or non-ionic surfactant solution, following steps in paragraph 2.5.2.1. All waste (including rags, gloves, etc.) shall be packaged and handled as PCB contaminated waste. Properly contain, store, label and dispose of contaminated debris, absorbents, rags, and other materials resulting from the decontamination. Latest disposal requirements are in reference 3.3 (Chapter 9, 4.c.(1).

5.5 Other Instructions

Resampling is required (see paragraph 4.10) Code 106.4 shall take a solid sample of the concrete area.

5.6 The shop performing the decontamination shall sign below to certify that the decontamination conforms to this TWD.

5.6.1 Code 300EC performed decontamination of floor oil stains in building 688 as required.

Code 300EC _____ Date _____

Return completed information package (TWD and HSP forms) for this floor stain to the project engineer, Code 106.4 PCBs, Building 521, second floor.

6.0 Code 106.4 Engineering Review and Approval and Resampling Results Acceptance

6.1 Code 106.4 conduct review and approval of information package. Floor oil stain decontamination conforms with requirements of this TWD.

Code 106.4_____Date_____

6.2 Code 106.4 review and acceptance of resampling results. For results to be satisfactory they must be ≤ 10 µg/100 sq. cm. for wipe samples and < 50 ppm for other samples where no release to the environment has occurred.
Results are: ☐ SAT ☐ UNSAT (remarks required)
Remarks: _____
_____
_____

Code 106.4_____Date_____

7.0 Enclosures
(1) Sample Results
(2) Health And Safety Plan Acceptance Form
(3) Sketch

ANALYTICAL REPORT

Mare Island Naval Shipyard	Date Sampled: 04/14/95
Code 106.14, Stop T-56	Date Received: 04/25/95
Building 1345	Date Extracted: 04/26/95
Vallejo, CA 94592-5100	Date Analyzed: 05/13/95
	Work Order No.: 95-04-516
Attn: Tammi Kratzel	Method: EPA 8080 (PCBs)
RE: Contract No. N00123-92-D-4011	Page 12 of 20

All results are reported in μg/sample.

Sample Number: 5897-95 (688/05-F2/floor oil stain #)

Analyte	Concentration	Reportable Limit
Aroclor-1016	ND	0.1
Aroclor-1221	ND	0.1
Aroclor-1232	ND	0.1
Aroclor-1242	ND	0.1
Aroclor-1248	ND	0.1
Aroclor-1254	11.2	0.1
Aroclor-1260	ND	0.1
Aroclor-1262	ND	0.1

Sample Number: 5898-95 (688/05-F2/floor oil stain #)

Analyte	Concentration	Reportable Limit
Aroclor-1016	ND	0.1
Aroclor-1221	ND	0.1
Aroclor-1232	ND	0.1
Aroclor-1242	ND	0.1
Aroclor-1248	ND	0.1
Aroclor-1254	2.45	0.1
Aroclor-1260	ND	0.1
Aroclor-1262	ND	0.1

ENCLOSURE 1

JUN 5 1995

TWD 95-0328

Health And Safety Plan Acceptance Form

INSTRUCTIONS: This form is to be completed by each person prior to beginning work at the PCB work area. Attach the completed forms to the TWD.

TWD No.: 95-0328

PCBCM#: FLOOR STAIN 88

By my signature below, I acknowledge that I have read and understand the contents of the Health & Safety Plan for this project. I agree to perform my work in accordance with the Health and Safety Plan.

Signature

Print Name

Code

Date

By my signature below, I acknowledge that I have read and understand the contents of the Health & Safety Plan for this project. I agree to perform my work in accordance with the Health and Safety Plan.

Signature

Print Name

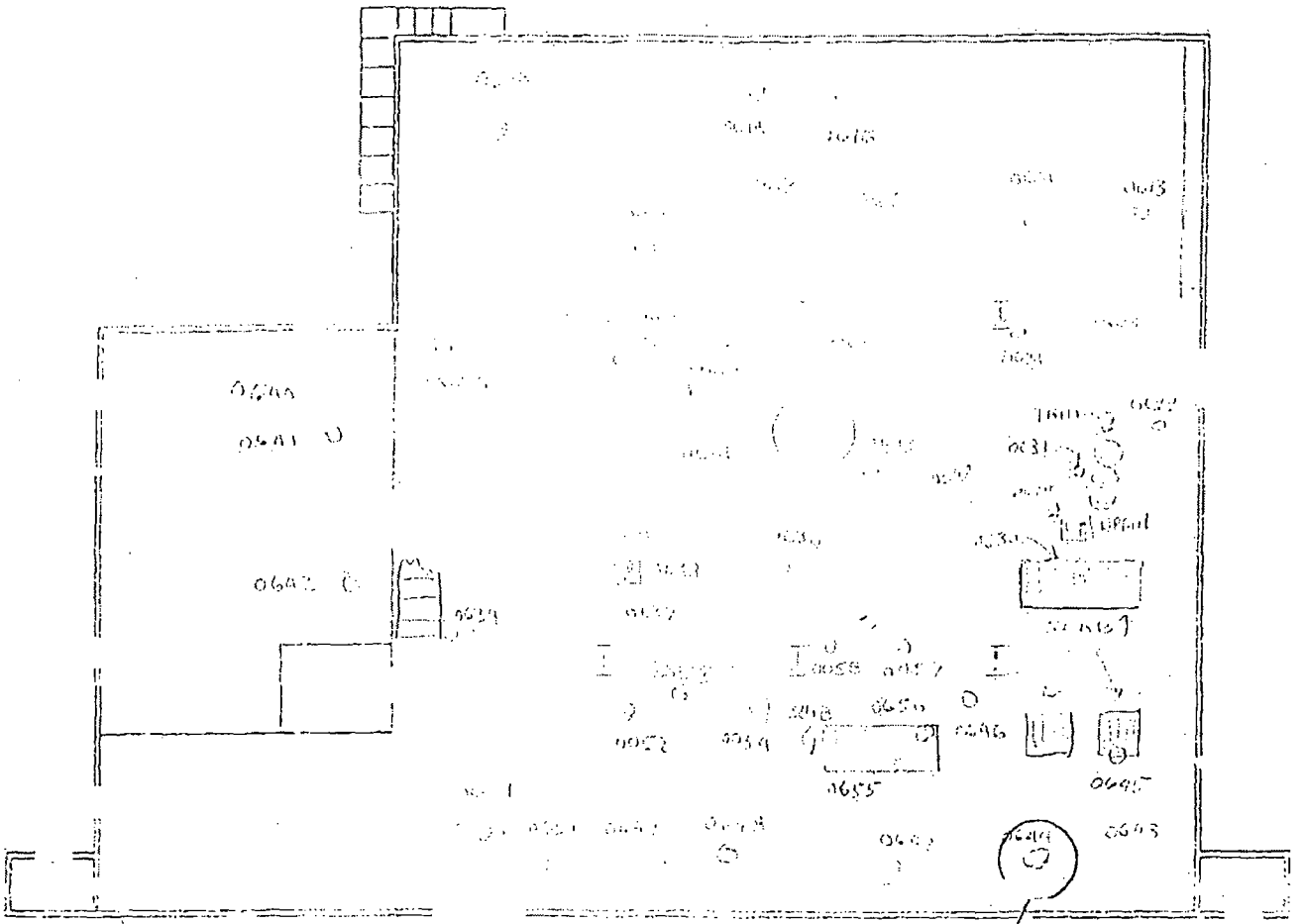
Code

Date

Enclosure 2

TWD 95-0328

BUILDING 688
SHOP 31 PUMP TEST FACILITY



FACILITY AND PRODUCTION EQUIPMENT
FIRST FLOOR

FLOOR STAIN
SAMPLE NO. 5103-0644
Round 24" DIA (RED PAINT)

NORTH

MARE ISLAND
BLDG 688
ENCLOSURE (1)
SHEET 7 OF 8

ENCLOSURE 3

UIC # 02255

MARE ISLAND NAVAL SHIPYARD
YARD ROUTE SLIP

CODE	STOP	NAME	EXTENSION	DATE
106.4PCB		L. RAMEY	6-7657	

- [x] ACTION
- [ ] AS DISCUSSED
- [ ] COMMENT/CONCUR
- [ ] COORDINATE
- [ ] FILE
- [ ] INFORMATION
- [ ] PREPARE DRAFT
- [ ] PREPARE FOR SIGNATURE
- [ ] REPORT BACK
- [ ] RETENTION
- [ ] RETURN
- [ ]

TO CODE	INITIALED BY	INITIALED DATE	SUBJECT / COMMENTS
			SUBJECT: REQUEST FOR TWD ACTION
PAINE			COMMENTS: (SEE ATTACHED ANALYSIS RECORD)
			EQUIPMENT DESCRIPTION:
VARNAU	[illegible]	6/9	TWD #67-320
			EQUIPMENT ID NO:
Kish			
			EQUIPMENT LOCATION:
			SAMPLE TYPE:
			SCHEDULED DISPOSITION:

ANALYTICAL REPORT

Mare Island Naval Shipyard		Date Sampled:	04/14/95
Code 106.14, Stop T-56		Date Received:	04/25/95
Building 1345		Date Extracted:	04/26/95
Vallejo, CA 94592-5100		Date Analyzed:	05/13/95
		Work Order No.:	95-04-516
Attn: Tammi Kratzel		Method:	EPA 8080 (PCBs)
RE: Contract No. N00123-92-D-4011		Page 12 of 20	

All results are reported in µg/sample.

Sample Number: 5897-95 (688/05-F2/floor oil stain #) [illegible]

Analyte	Concentration	Reportable Limit
Aroclor-1016	ND	0.1
Aroclor-1221	ND	0.1
Aroclor-1232	ND	0.1
Aroclor-1242	ND	0.1
Aroclor-1248	ND	0.1
Aroclor-1254	11.2	0.1
Aroclor-1260	ND	0.1
Aroclor-1262	ND	0.1

Sample Number: 5898-95 (688/05-F2/floor oil stain #)

Aroclor-1016	ND	0.1
Aroclor-1221	ND	0.1
Aroclor-1232	ND	0.1
Aroclor-1242	ND	0.1
Aroclor-1248	ND	0.1
Aroclor-1254	2.45	0.1
Aroclor-1260	ND	0.1
Aroclor-1262	ND	0.1

CHAIN OF CUSTODY RECORD dtd 04/17/95 95-M-0905 Doc Num 51070427 Page 3 of 4

C & T

ADDRESS BLOCK

From	To
Tammi Kratzel MINSY Code 106.14 Stop T56 Bldg 1345 Vallejo, CA 94592-5100 Tel (707) 646-0181 Fax (707) 646-0184	Cal Science Environmental laboratories, Inc. 11631 Seaboard Circle Stanton, CA 90680 Tel (714) 895-5494 Fax (714) 894-7501

INSTRUCTION BLOCK

Turnaround Time: Written QC Report Required?

[ ] Same Day [ ] 24 Hrs [ ] 48 Hrs [ ] 5 Days [X] 10 Days [ ] Rush [X] Routine QC [ ] RWQCB

PCB SAMPLE DATA BLOCK

C106.14 Sample Number	C106.4 Sample ID	Location/Parcel/Description	Sampling Date	Time	Oil Grab	Water Grab	Solid/Soil Filter	Type	Num Cont	Cont Size	Analysis Required
5895-95	5103-0642	688/05-F2/floor oil stain #	04/14/95	13:25	[ ]	[ ]	[X]	[2]	[1]	[40ml]	~~3001AP~~
5896-95	5103-0643	688/05-F2/floor oil stain #	04/14/95	13:35	[ ]	[ ]	[X]	[2]	[1]	[40ml]	~~3001AP~~
5897-95	5103-0644	688/05-F2/floor oil stain #	04/14/95	13:45	[ ]	[ ]	[X]	[2]	[1]	[40ml]	~~3001AP~~
5898-95	5103-0645	688/05-F2/floor oil stain #	04/14/95	13:55	[ ]	[ ]	[X]	[2]	[1]	[40ml]	~~3001AP~~
5899-95	5103-0646	688/05-F2/floor oil stain #	04/14/95	14:05	[ ]	[ ]	[X]	[2]	[1]	[40ml]	3001AP
5900-95	5103-0647	688/05-F2/floor oil stain #	04/14/95	14:15	[ ]	[ ]	[X]	[2]	[1]	[40ml]	3001AP
5901-95	5103-0648	688/05-F2/floor oil stain #	04/14/95	14:25	[ ]	[ ]	[X]	[2]	[1]	[40ml]	3001AP
5902-95	5103-0649	688/05-F2/floor oil stain #	04/14/95	14:35	[ ]	[ ]	[X]	[2]	[1]	[40ml]	~~3001AP~~
5903-95	5103-0650	688/05-F2/floor oil stain #	04/14/95	14:45	[ ]	[ ]	[X]	[2]	[1]	[40ml]	~~3001AP~~
5904-95	5103-0651	688/05-F2/floor oil stain #	04/14/95	14:55	[ ]	[ ]	[X]	[2]	[1]	[40ml]	~~3001AP~~

Type: [1] swipe mm ext, [2] swipe spill, [3] swipe resv irt, [4] solid spill, [5] oil res mm, [6] water grab, [7] blank

CHAIN OF CUSTODY RECORD

Data Transferred by: (Signature)		Date: 4/17/95	Time: 0900
Relinquished by: (Signature)	Received by: (Signature)	Date: 4/17/95	Time: 1000
Relinquished by: (Signature)	Received by: (Signature)	Date: 4/17/95	Time: 1330
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory: (Signature)	Date:	Time:

PCB SURVEY AND SAMPLE DATA SHEET (ADDON SHEET)

DESCRIPTION BLOCK

Bldg [illegible] Floor [illegible] Column _____ Map Quad _____

Desc [illegible] Manuf _____ Model Num _____ Manuf Ser Num _____

Property Number _____ Alpha _____ Num Of Samples ____

PCB SAMPLE DATA BLOCK

Sample ID	Date	Time	Oil Grab	Water Grab	Solid/Soil Filter	Type	Cont Size	Remarks
5103-0640	[illegible]	[illegible]	[ ]	[ ]	[ ]	[ ]	[ ]	[illegible]
5103-0641	[illegible]	[illegible]	[ ]	[ ]	[ ]	[ ]	[ ]	[illegible]
5103-0642	[illegible]	[illegible]	[ ]	[ ]	[ ]	[ ]	[ ]	[illegible]
5103-0643	[illegible]	[illegible]	[ ]	[ ]	[ ]	[ ]	[ ]	[illegible]
5103-0644	[illegible]	[illegible]	[ ]	[ ]	[ ]	[ ]	[ ]	[illegible]
5103-0645	[illegible]	[illegible]	[ ]	[ ]	[ ]	[ ]	[ ]	[illegible]
5103-0646	[illegible]	[illegible]	[ ]	[ ]	[ ]	[ ]	[ ]	[illegible]
5103-0647	[illegible]	[illegible]	[ ]	[ ]	[ ]	[ ]	[ ]	[illegible]
5103-0648	[illegible]	[illegible]	[ ]	[ ]	[ ]	[ ]	[ ]	[illegible]

Type: [1] swipe mm ext, [2] swipe spill, [3] swipe resv int, [4] solid spill, [5] oil res mm, [6] water grab, [7] blank

SKETCH BLOCK

[illegible]

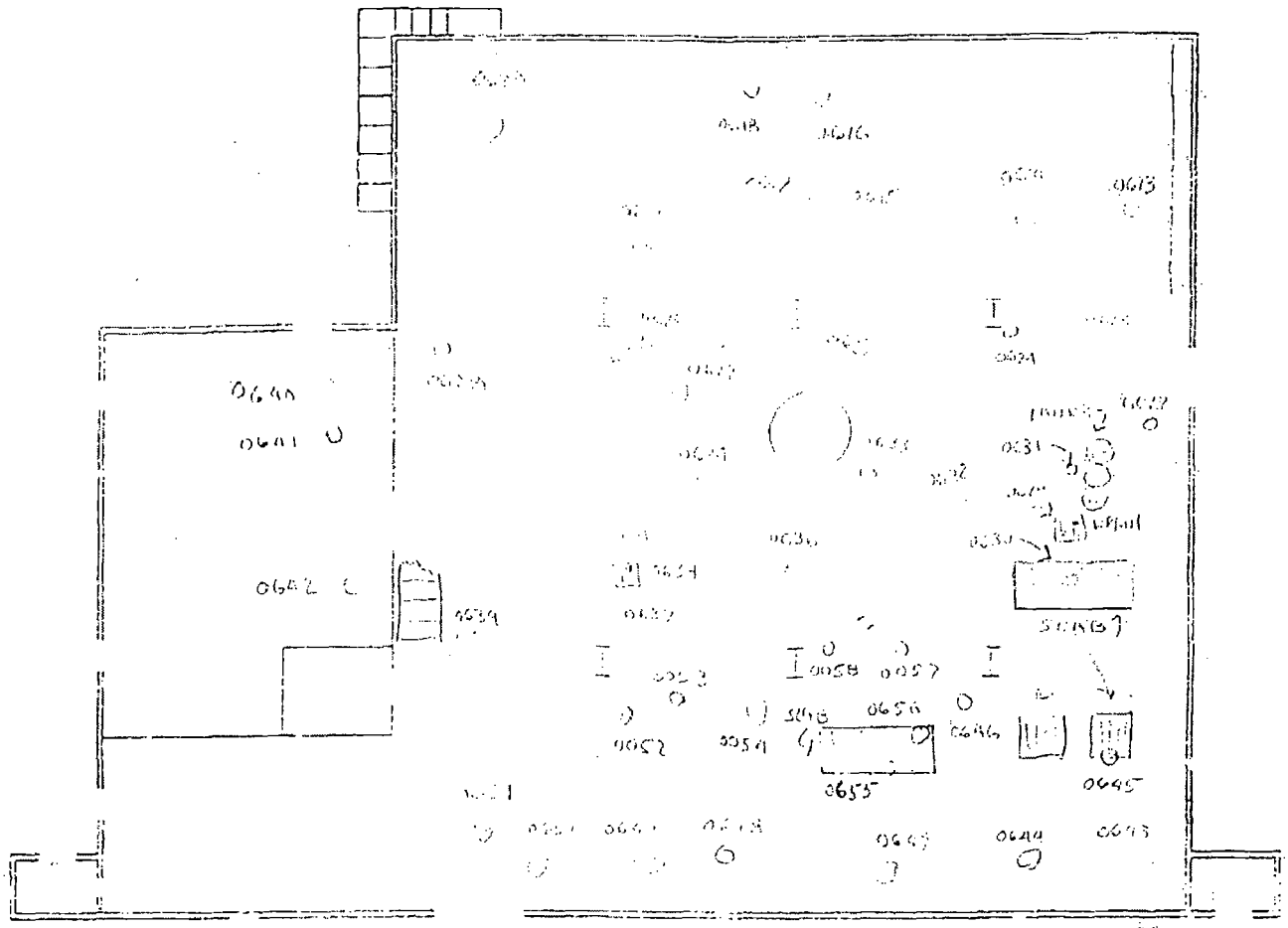
Samples were taken, labeled, sealed, recorded, stored and secured from tampering by unauthorized personnel as required by: Section 3 of "Work Plan PCB Survey and Sampling For Mechanical Machinery"; or "Work Plan PCB Survey and Sampling For Possible Spill Sites".

Name [illegible] Badge Num [illegible] Date [illegible]

Name [illegible] Badge Num [illegible] Date [illegible]

Name [illegible] Badge Num [illegible] Date [illegible]

BUILDING 688
SHOP 31 PUMP TEST FACILITY



FACILITY AND PRODUCTION EQUIPMENT
FIRST FLOOR

STOP WORK SAMPLE #5

NORTH

MARE ISLAND
BLDG 688
ENCLOSURE (1)
SHEET 7 OF 8

02242

MARE ISLAND NAVAL SHIPYARD
YARD ROUTE SLIP

CODE	STOP	NAME	EXTENSION	DATE
106.4PCB	B521	DOUG WOOTEN	67659	6-16-95

☐ ACTION ☐ COORDINATE ☐ PREPARE DRAFT ☐ RETENTION
☐ AS DISCUSSED ☐ FILE ☐ PREPARE FOR SIGNATURE ☐ RETURN
☐ COMMENT / CONCUR ☐ INFORMATION ☐ REPORT BACK ☐

TO CODE	INITIALED BY	INITIALED DATE	SUBJECT / COMMENTS
			SUBJECT: TWD #95-0340 BLDG # 688
			COMMENTS
106.4	[signature]	6/16	REVIEW
106.4FP	[signature]	6/16	APPROVAL
106.32	[signature]	6/19/95	CONCURRENCE
			ITEM # N/A ON 106.04 SURVEY REPORT
			COPIES TO 300CC/EC, STATUS
106.4	[signature]	6-20-95	LAST: LINDA REMMINGTON (COPIES TO 300EC/CC
			LARRY RAMEY
			CRAIG VARNAU

MINS 5216/24 (REV 1-85)

PCB DECONTAMINATION TECHNICAL WORK DOCUMENT (TWD)

PCB CONTAMINATED MACHINE NO FLOOR STAIN-88

TWD NO. 95-0340

BLDG NO. 688

MARE ISLAND NAVAL SHIPYARD
VALLEJO, CALIFORNIA

Prepared by:
BRAC Environmental Technical Division
Code 106.4
Vallejo, Calif. 94592

Distribution:
300EC
300CC
106.4
106.32

PCB DECONTAMINATION
TECHNICAL WORK DOCUMENT
INITIAL ISSUE

		Date
Prepared by:	Douglas Wooten Code 106.4	6/16/95
Reviewed by:	Dennis Terry Code 106.4	6-16-95
Approved by:	R Laurie Code 106.4 (Project Manager)	6/16/95
Concurrence:	Wayne Kehoe Code 106.32	6/17/95

Rev.	Description	Approval	Date

1.0 Purpose

1.1 The purpose of this TWD is to decontaminate stained area on the painted concrete area of building 688, (1st floor). The stain is located in the southeast end of building 688 (see sketch on enclosure 3). The stain contains 15.1 ug/100 sq. cm. for sample 5103-0668. The result exceeds the acceptable PCB level of 10 ug/100 sq. cm. (see enclosure 1) as described in reference 3.2. The sample number should be marked near the sample location. Code106.4,B.Turner shall be contacted at 6-2471 if sample number is missing from the area.

2.0 Description

2.1 The floor oil stain shall be decontaminated using the procedures required by this TWD.

3.0 References

3.1 NAVSHIPYDMAREINST 5100.36 -- Shipyard Occupational Safety and Health Workplace Manual, Mare Island Naval Shipyard, Occupational Safety, Health, and Environmental Office -- Code 106

3.2 Workplan PCB Decontamination for Spill Sites, Mare Island Naval Shipyard, Code 106.4.

3.3 Mare Island Naval Shipyard Environmental Protection Manual of 1 February 1994

4.0 Health & Safety Section / General Notes

4.1 All work performed shall be in strict adherence to the shipyard Occupational Safety and Health (OSH) Manual (reference 3.1) the General Health & Safety Plan, Section 4 of reference 3.2., and the Health and Safety Section of this TWD.

4.2 At least two people shall be present at all times while chemical or physical hazards exist and access is being controlled to the PCB Work Area.

4.3 Personal protective equipment (PPE) shall be as follows:
Saranex coated tyvek coveralls
Viton gloves with latex gloves worn over them
Steel toed boots (if worn without coverings shall be washed with detergent and rinsed).
Nitrile or neoprene foot coverings may be worn over steel toed boots.
Face shield (8" minimum) with vented goggles (while cleaning)

4.4 Workers performing decontamination shall have received the following training as a minimum:
PCB Handling Controls (course YJ-B010)
Hazcomm (course YJ-A552)

4.5 The main hazard at the site is PCBs on the floor. Ventilation is adequate as the building is vacant and is large, and this will provide fresh air.

4.6 Temperatures above 100 degrees are not expected, nor is any hot work authorized, so PCBs will not be airborne.

4.7 Site access shall be controlled using the following areas:
• Hot Zone - The area of the spill site. Personnel entry to the hot zone shall be minimized. The area to be decontaminated is the hot zone plus the buffer zone.
•Buffer Zone - A one (1) foot wide area adjacent to and surrounding the hot zone.
•Warm Zone - An area approximately three (3) feet by six (6) feet near the hot zone established by this TWD. The warm zone shall be used for exiting PPE decontamination procedures. The warm zone shall be established prior to beginning decontamination.
These areas shall be posted to exclude unauthorized personnel and the building shall be locked when not in use.

4.8 An emergency eyewash station with a 15 minute minimum capacity shall be accessible in 10 seconds or less from the work area.

4.9 Phone numbers are as follows:

Hospital: 9-911 or 646-4444		Ambulance:	9-911 or 646-4444
Spill team:	646-0182 or 0183	Fire:	9-911 or 646-3333
Police:	9-911 or 646-2222	Project Mgr.:	646-5945
Emergency:	9-911		

4.10 Contact Code 106.4, B.Turner at 6-2471 immediately after the floor decontamination. Resampling after decontamination is required by Code 106.4.

5.0 Decontamination Procedures

5.1 Support Area (Personal Decontamination)
Personal decontamination is required for PPE and cleaning equipment that comes in contact with PCB contaminated surfaces or PCB contaminated cleaning fluid and materials. Personal decontamination shall be performed in the warm zone, as defined in Section 4.7, and shall be performed in accordance with Section 4.9 of reference 3.2. The floor of the warm zone and routes between the warm zone

and the hot zones shall be covered with plastic drop cloths to avoid spread of contamination.

5.2 HSP Forms

Code 106.4 will provide minimum specific health and safety information in Section 4.0 of each TWD. This information in most cases will be sufficient. Personal preferences regarding PPE and communication methods, and changes at the decontamination site from the time the TWD was written to when the decontamination is accomplished/completed may cause a change to the health and safety information provided. Therefore, the On-Site Health and Safety Coordinator, just prior to and during decontamination, shall review HSP forms 4.6, 4.15 and 4.16 of reference 3.2 and complete forms if: 1) one of the conditions mentioned in the previous sentence exist or 2) the TWD does not cover an item, e.g. communications, on HSP form 4.16. Any down grading of health and safety information (PPE and air monitoring) will only occur upon written approval of Code 106.4. HSP Acceptance Form 4.17 (enclosure 2), must be completed and signed by each person performing decontamination.

5.3 Sampling Evolution (Place an x or number on applicable line)

Initial Sampling ___X___ Resampling _____ (1,2,3,etc.)

5.4 Specific Instructions:

Perform decontamination of floor stain in accordance with the applicable general instructions set forth in reference 3.2, section 2, paragraph 2.5.1, and the specific requirements as follows:. Double wash / rinse entire stain on concrete area with industrial strength detergent or non-ionic surfactant solution, following steps in paragraph 2.5.2.1. All waste shall be packaged and handled as PCB contaminated waste. Properly contain, store, label and dispose of contaminated debris, absorbents, rags, and other materials resulting from the decontamination. Latest disposal requirements are in reference 3.3 (Chapter 9, 4.c.(1).

5.5 Other Instructions

Resampling is required (see paragraph 4.10) Code 106.4 shall take a swipe sample of the concrete area..

5.6 The shop performing the decontamination shall sign below to certify that the decontamination conforms to this TWD.

5.6.1 Code 300EC performed decontamination of floor oil stains in building 688 as required.

Code 300EC _____ Date _____

Return completed information package (TWD and HSP forms) for this floor stain to the project engineer, Code 106.4 PCBs, Building 521, second floor.

6.0 Code 106.4 Engineering Review and Approval and Resampling Results Acceptance

6.1 Code 106.4 conduct review and approval of information package. Floor oil stain decontamination conforms with requirements of this TWD.

Code 106.4_____Date_____

6.2 Code 106.4 review and acceptance of resampling results. For results to be satisfactory they must be ≤ 10 µg/100 sq. cm. for wipe samples and < 50 ppm for other samples where no release to the environment has occurred.

Results are: ☐ SAT ☐ UNSAT (remarks required)

Remarks: _____

_____

_____

Code 106.4_____Date_____

7.0 Enclosures

(1) Sample Results
(2) Health And Safety Plan Acceptance Form
(3) Sketch

ANALYTICAL REPORT

Mare Island Naval Shipyard	Date Sampled:	04/17/95
Code 106.14, Stop T-56	Date Received:	04/25/95
Building 1345	Date Extracted:	04/28/95
Vallejo, CA 94592-5100	Date Analyzed:	06/05/95
	Work Order No.:	95-04-517
Attn: Tammi Kratzel	Method:	EPA 8080 (PCBs)
RE: Contract No. N00123-92-D-4011	Page 1 of 6	

All results are reported in µg/sample.

Sample Number: 5978-95 (688/05-F2/misc & oil stain #)

Analyte	Concentration	Reportable Limit
Aroclor-1016	ND	0.1
Aroclor-1221	ND	0.1
Aroclor-1232	ND	0.1
Aroclor-1242	ND	0.1
Aroclor-1248	ND	0.1
Aroclor-1254	4.09	0.1
Aroclor-1260	ND	0.1
Aroclor-1262	ND	0.1

Sample Number: 5979-95 (688/05-F2/misc & oil stain #) [5103-0668]

Aroclor-1016	ND	0.1
Aroclor-1221	ND	0.1
Aroclor-1232	ND	0.1
Aroclor-1242	ND	0.1
Aroclor-1248	ND	0.1
Aroclor-1254	15.1	0.1
Aroclor-1260	ND	0.1
Aroclor-1262	ND	0.1

Enclosure 1

TWD 95-0340

Health And Safety Plan Acceptance Form

INSTRUCTIONS: This form is to be completed by each person prior to beginning work at the PCB work area. Attach the completed forms to the TWD.

TWD No.: 95-0340

PCBCM#: FLOOR STAIN -88

By my signature below, I acknowledge that I have read and understand the contents of the Health & Safety Plan for this project. I agree to perform my work in accordance with the Health and Safety Plan.

Signature

Print Name

Code

Date

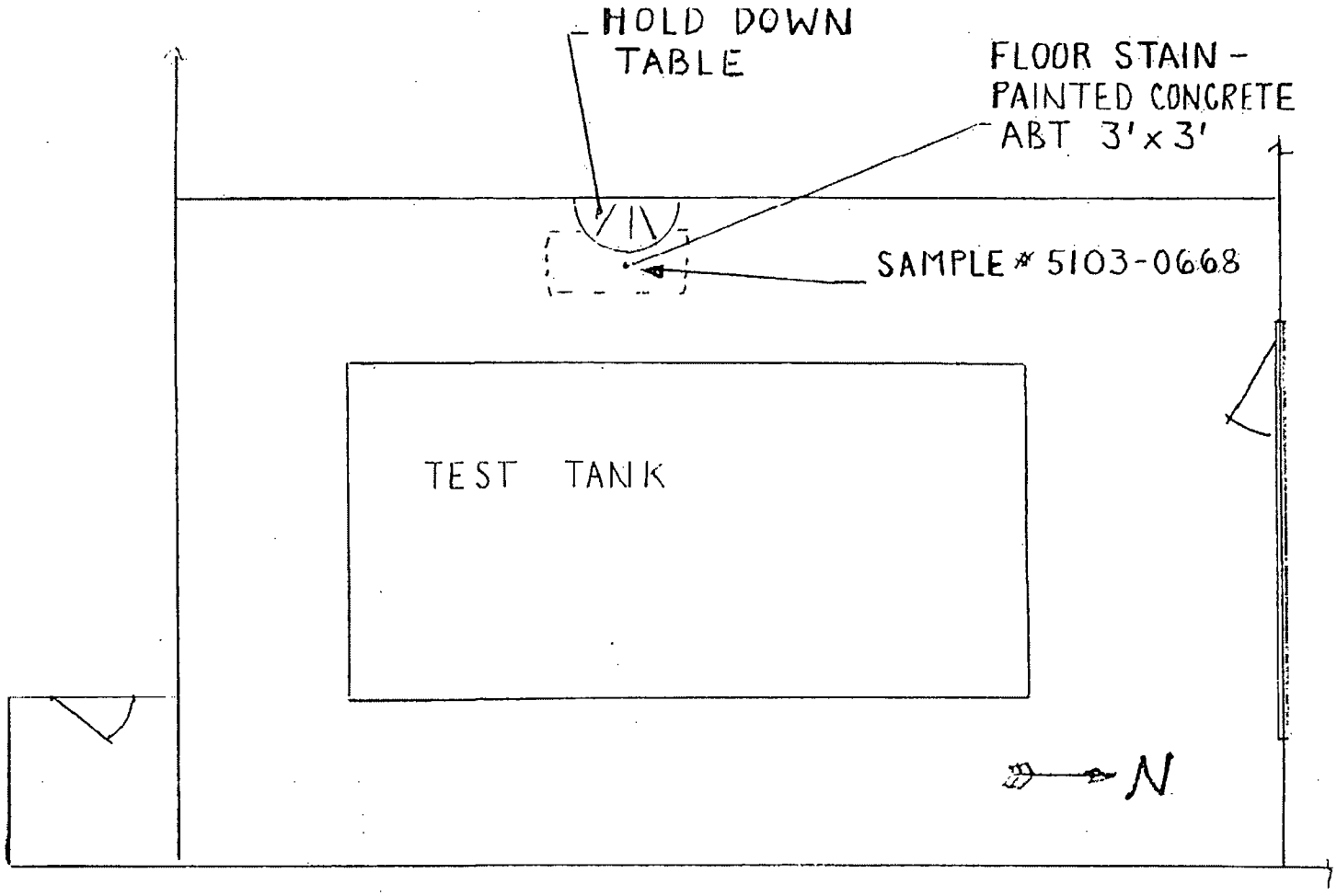
By my signature below, I acknowledge that I have read and understand the contents of the Health & Safety Plan for this project. I agree to perform my work in accordance with the Health and Safety Plan.

Signature

Print Name

Code

Date



PLAN VIEW

BLDG. 688 - SOUTH EAST CORNER OF BUILDING

SKETCH - FLOOR STAIN BLDG. 688

ENCLOSURE 3

TWD 95-0340

UID# 02242

MARE ISLAND NAVAL SHIPYARD
YARD ROUTE SLIP

CODE	STOP	NAME	EXTENSION	DATE
106.4PCB		L. RAMEY	6-7657	[illegible]

☒ ACTION ☐ COORDINATE ☐ PREPARE DRAFT ☐ RETENTION
☐ AS DISCUSSED ☐ FILE ☐ PREPARE FOR SIGNATURE ☐ RETURN
☐ COMMENT/CONCUR ☐ INFORMATION ☐ REPORT BACK ☐

TO CODE	INITIALED BY	INITIALED DATE	SUBJECT / COMMENTS
			SUBJECT: REQUEST FOR TWD ACTION
PAINE			COMMENTS: (SEE ATTACHED ANALYSIS RECORD)
			EQUIPMENT DESCRIPTION:
VARNAU	[illegible]	6/15	[illegible] TWD # 4[illegible]-340
			EQUIPMENT ID NO:
Water			[illegible]
			EQUIPMENT LOCATION:
			[illegible]
			SAMPLE TYPE:
			Soil PCB
			SCHEDULED DISPOSITION:
			PCB/RN1

ANALYTICAL REPORT

Mare Island Naval Shipyard		Date Sampled:	04/17/95
Code 106.14, Stop T-56		Date Received:	04/25/95
Building 1345		Date Extracted:	04/28/95
Vallejo, CA 94592-5100		Date Analyzed:	06/05/95
		Work Order No.:	95-04-517
Attn: Tammi Kratzel		Method:	EPA 8080 (PCBs)
RE: Contract No: N00123-92-D-4011		Page 1 of 6	

All results are reported in µg/sample.

Sample Number: 5978-95 (688/05-F2/misc & oil stain #)

Analyte	Concentration	Reportable Limit
Aroclor-1016	ND	0.1
Aroclor-1221	ND	0.1
Aroclor-1232	ND	0.1
Aroclor-1242	ND	0.1
Aroclor-1248	ND	0.1
Aroclor-1254	4.09	0.1
Aroclor-1260	ND	0.1
Aroclor-1262	ND	0.1

Sample Number: 5979-95 (688/05-F2/misc & oil stain #) [5103-0668]

Aroclor-1016	ND	0.1
Aroclor-1221	ND	0.1
Aroclor-1232	ND	0.1
Aroclor-1242	ND	0.1
Aroclor-1248	ND	0.1
Aroclor-1254	15.1	0.1
Aroclor-1260	ND	0.1
Aroclor-1262	ND	0.1

CHAIN OF CUSTODY RECORD dtd 04/17/95 95-M-0905 Doc Num 51070435 Page 1 of 2

C&T

ADDRESS BLOCK

From	To
Tammi Kratzel MINSY Code 106.14 Stop T56 Bldg 1345 Vallejo, CA 94592-5100 Tel (707) 646-0181 Fax (707) 646-0184	Cal Science Environmental laboratories, Inc. 11681 Seaboard Circle Stanton, CA 90680 Tel (714) 895-5494 Fax (714) 894-7501

INSTRUCTION BLOCK

Turnaround Time: [ ] Same Day [ ] 24 Hrs [ ] 48 Hrs [ ] 5 Days [X] 10 Days [ ] Rush

Written QC Report Required? [X] Routine QC [ ] RWQCB

PCB SAMPLE DATA BLOCK

C106.14 Sample Number	C106.4 Sample ID	Location/Parcel/Description	Sampling Date	Time	Oil Grab	Water Grab	Solid/Soil Filter	Type	Num Cont	Cont Size	Analysis Required
5978-95	5103-0667	688/05-F2/misc & oil stain #	04/17/95	8:00	[ ]	[ ]	[X]	[2]	[1]	[40ml]	~~3001AP~~
5979-95	5103-0668	688/05-F2/misc & oil stain #	04/17/95	8:15	[ ]	[ ]	[X]	[2]	[1]	[40ml]	~~3001AP~~
5980-95	5103-0669	688/05-F2/misc & oil stain #	04/17/95	8:30	[ ]	[ ]	[X]	[2]	[1]	[40ml]	~~3001AP~~
5981-95	5103-0670	688/05-F2/misc & oil stain #	04/17/95	8:45	[X]	[ ]	[ ]	[5]	[1]	[40ml]	3001AH
5982-95	5103-0671	688/05-F2/misc & oil stain #	04/17/95	9:00	[ ]	[ ]	[X]	[2]	[1]	[40ml]	~~3001AP~~
5983-95	5103-0672	688/05-F2/misc & oil stain #	04/17/95	9:15	[ ]	[ ]	[X]	[2]	[1]	[40ml]	~~3001AP~~
5984-95	5103-0673	688/05-F2/misc & oil stain #	04/17/95	9:30	[ ]	[ ]	[X]	[2]	[1]	[40ml]	~~3001AP~~
5985-95	5103-0674	688/05-F2/misc & oil stain # BLANK	04/17/95	9:45	[ ]	[ ]	[X]	[7]	[1]	[40ml]	~~3001AP~~
5986-95	5103-0676	688/05-F2/misc oil stain #	04/17/95	10:00	[ ]	[ ]	[X]	[2]	[1]	[40ml]	~~3001AP~~
5987-95	5103-0677	688/05-F2/misc oil stain #	04/17/95	10:15	[ ]	[ ]	[X]	[2]	[1]	[40ml]	~~3001AP~~

Type: [1] swipe mm ext, [2] swipe spill, [3] swipe resv int, [4] solid spill, [5] oil res mm, [6] water grab, [7] blank

CHAIN OF CUSTODY RECORD

Data Transferred by: (Signature)		Date: 4/17/95	Time: 1500
Relinquished by: (Signature) 4-17-95	Received by: (Signature)	Date: 4/17/95	Time: 1600
Relinquished by: (Signature)	Received by: (Signature)	Date: 4/18/95	Time: 920
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory: (Signature)	Date:	Time:

PCB SURVEY AND SAMPLE DATA SHEET (ADDON SHEET)

DESCRIPTION BLOCK

Bldg 635 Floor 1 Column _____ Map Quad _____

Desc _____ Manuf _____ Model Num _____ Manuf Ser Num _____

Property Number _____ Alpha _____ Num Of Samples ____

PCB SAMPLE DATA BLOCK

Sample ID	Date	Time	Oil Grab	Water Grab	Solid/Soil Filter	Type	Cont Size	Remarks
5103-0667	4-17-95	8:00	[ ]	[ ]	[✓]	[2]	[40]	FLOOR CONCRETE SWIPE
5103-0668	4-17-95	8:15	[ ]	[ ]	[✓]	[2]	[40]	" " "
5103-0669	4-17-95	8:30	[ ]	[ ]	[✓]	[2]	[40]	WELDER BASEPLATE SWIPE
5103-0670	4-17-95	8:45	[✓]	[ ]	[ ]	[5]	[40]	TABLE TOP DRAIN TRAP
5103-0671	4-17-95	9:00	[ ]	[ ]	[✓]	[2]	[40]	FLOOR CONCRETE SWIPE
5103-0672	4-17-95	9:15	[ ]	[ ]	[✓]	[2]	[40]	" " "
5103-0673	4-17-95	9:30	[ ]	[ ]	[✓]	[2]	[40]	DRAIN FLOOR SWIPE
5103-0674	4-17-95	9:45	[ ]	[ ]	[✓]	[7]	[40]	BLANK
5103-0675	NOT USED		[ ]	[ ]	[ ]	[ ]	[ ]	NOT USED

Type: [1] swipe mm ext, [2] swipe spill, [3] swipe resv int, [4] solid spill, [5] oil res mm, [6] water grab, [7] blank

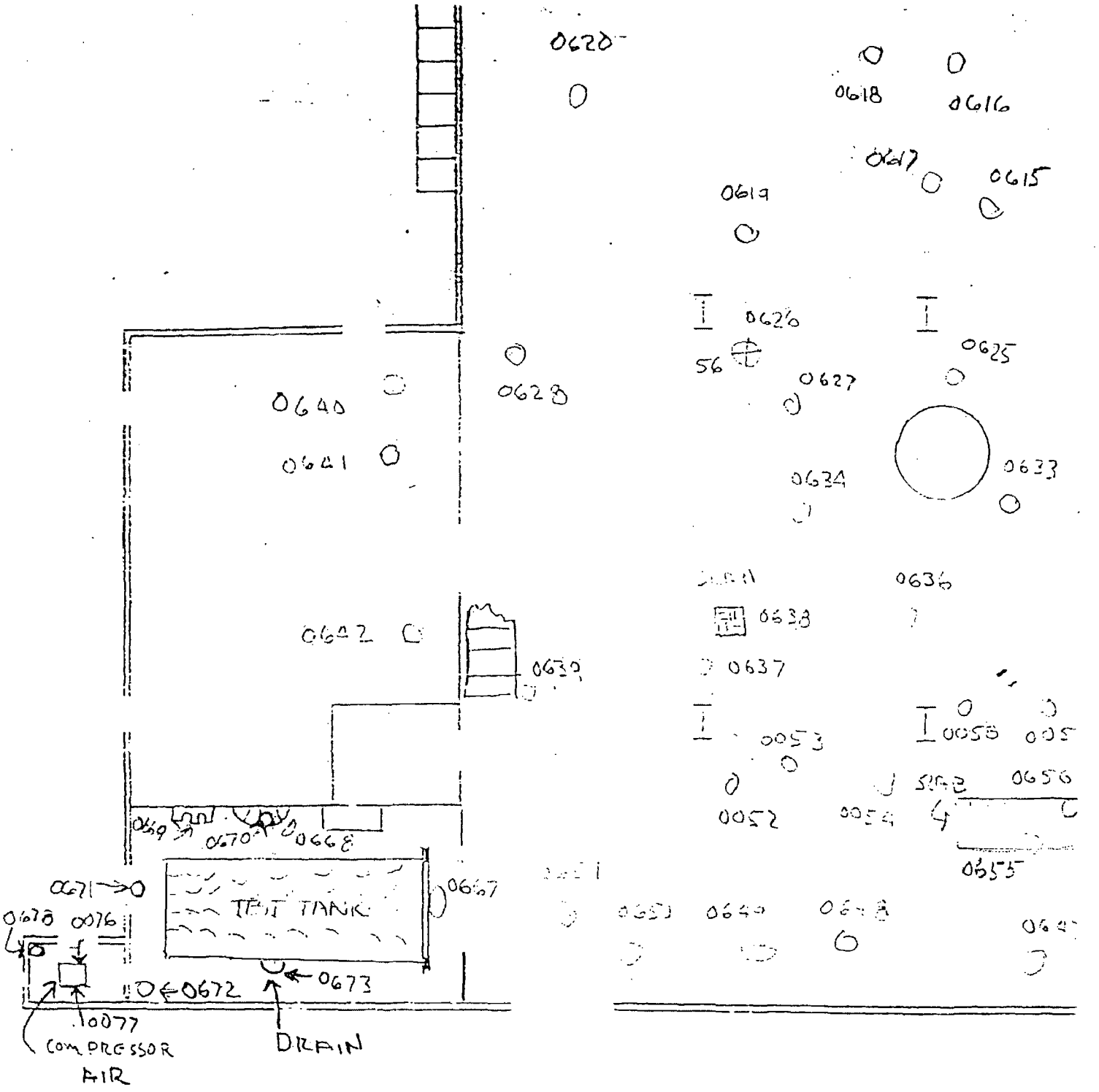
SKETCH BLOCK

Samples were taken, labeled, sealed, recorded, stored and secured from tampering by unauthorized personnel as required by: Section 3 of "Work Plan PCB Survey and Sampling for Mechanical Machinery"; or "Work Plan PCB Survey and Sampling For Possible Spill Sites".

Name Jack Taylor Badge Num 89560 Date 4-17-95

Name Ron Conley Badge Num 03260 Date 4-17-95

Name [signature] Badge Num 22391 Date 4/17/95



FACILITY AND PRODUCTION EQUIPMENT
FIRST FLOOR

5103 SERIES SAMPLE #'S